

Cat® PM620 and PM622

Cold Planers

The Cat® PM620 and PM622 Cold Planers with integrated Cat Grade and Slope technology, automated systems and the latest System K rotors help you meet the demands of the job with efficiency. A comfortable work environment and intuitive controls are designed to keep operators productive throughout the day. Easy access to daily service points helps simplify maintenance. Multiple options are available to enhance versatility for high production applications.

Fuel-Efficient Power

- The powerful Cat® C18 engine meets Brazil MAR-1, equivalent to U.S. EPA Tier 3 and EU Stage IIIA emission standards
- Engine Idle Speed Management and multiple rotor speeds allow for optimal output and demand on the engine
- A variable-speed cooling fan operates at the lowest possible speed for quiet and efficient cooling
- Automatic Load Control monitors demand on the engine and adjusts milling speed to help prevent stalls while maintaining high production

Optimal Maneuverability and Control

- The reliable track undercarriage leverages proven designs from Cat dozers and uses an automatic tensioning system for consistent performance and longer track life
- A robust propel system features two independent propel pumps that drive two crawler tracks each, in a high-traction, cross-drive pattern
- Automatic traction control helps maintain consistent speed in the most challenging applications
- Four steering modes with advanced alignment and tracking provides precise steering and helps reduce track wear
- Electronically switch rotor speeds during operation

Durable and Dependable Cutting System

- The rotor drive system is engineered to maximize torque transfer and features a heavy-duty dry clutch, automatic belt-tensioning, and two high tensile (five-rib) belts to drive the rotor
- Durable, reinforced cutting chamber
- Ample access and lighting for bit changes and rotor service
- Hardened full length side plate skis, inboard ski shoe, and anti-slab shoes are designed to reduce wear and maintenance

High Production System K Rotors Optimize Cutting Capability

- Cat System K rotors can be used for numerous applications and feature efficient material flow with a uniform cutting pattern
- A fastener-free design secures toolholders in place without a retaining pin, bolt or setscrew, speeding up replacement and eliminating the need for torquing
- Toolholders, base blocks and kicker paddles are built from high-strength alloy steel that's abrasion resistant for extended life
- Optional Cat Diamond bits are designed to stay sharp and last significantly longer than a carbide bit (ideal for bituminous applications without obstacles such as interstates or motorways)

Efficient Material Removal

- High-capacity conveyors efficiently remove milled material with variable speed discharge control
- Belt speed can be adjusted to match material type and production rate, while the built in "boost" feature provides a temporary surge in belt speed to eject material faster and farther
- A wide opening and seamless belt effectively clear the rotor chamber
- The belt reverses direction to easily remove material from the conveyor during clean-up, and easy-access covers allow for quick inspection and cleaning of the rollers
- Conveyer hydraulically folds for transportation and maintenance

Easy Operation

- Access integrated technology and automated systems through easy-to-use controls and a highly intuitive touchscreen interface
- Ground displays utilize a robust mounting system that easily drops into multiple mounting locations without tightening clamps or fasteners and quickly detaches for storage without disconnecting harnesses
- Displays provide access to gauge cluster, operating information, grade and slope, remote camera feeds, machine controls and diagnostics
- Four, ground-level 16-button keypads give operators convenient access to various machine functions
  - Rear keypads include controls for leg height, water spray, sideplates, moldboard, rear door and rear steering
  - Flush mounted front keypads include controls for the conveyor, sideplates, anti-slab, high pressure washdown, water spray, inboard ski and fuel fill pump
- A Standby/Resume button pauses major machine functions and lowers engine speed to conserve fuel during truck exchanges, and when ready to resume milling a push of the button automatically brings the machine back up to production at the same speed
- Once a rotor speed is selected and the cutting pattern is established, use of the Cruise Control button stores the propel speed and repeatedly returns to that same speed for every pass, and when used in combination with Standby/Resume allows for easy and precise pattern control
- High-visibility, color LED lightbars help crews easily identify water tank level day or night and from further distances (included in optional enhanced LED light package)
- Safety and visibility are enhanced behind the machine with a standard rear vision camera, viewable through the main touchscreen display in the operator station
- Optional multi vision cameras further enhance operator visibility to the truck bed for loading and to the cutting path in front of the chamber

Comfortable Work Environment

- The workstation is designed for all-day comfort with adjustable consoles, large cushioned arm rests, hip rests, and optional anti-fatigue floor mats
- Telescoping center console displays bring the touchscreens fully within reach for comfortable interaction
- The ladder and gate design allows unimpeded ascent/decent from the operator platform and the retractable right-side handrail simplifies maneuverability around obstacles
- Work areas are illuminated for nighttime operation with backlit keypads, standard wide-dispersion LED work lights and an optional enhanced LED lighting package
- A single post, forward-folding powered canopy with dimmable overhead LED lighting redeploys during operation with the push of a button to clear overhead obstacles
- The canopy can be configured with or without integrated side extensions and optional windscreens
- Choose from pedestal or suspension seat options
- Maximize dust removal from the working areas with the optional dust abatement system

Boost Precision and Productivity with Cat Technology

- Achieve accurate, repeatable and automatic cutting precision with the integrated Cat Grade and Slope system
- Obtain full control of grade and slope from any machine display
- Easily adjust grade control values and sensors through the touchscreen displays
- Adjust the speed at which the rotor drops into the cut for optimal machine control
- Set and automate transitions in/out of cuts
- Clear obstacles in the cutting path with ease using the obstacle jump feature
- Enhance for full 3D milling operation (additional hardware required)
- Optional VisionLink™ Productivity provides detailed and comprehensive actionable information to help you manage and improve the productivity and profitability of your milling operations

Simple Service, Low Maintenance Costs

- Daily maintenance areas are easily accessible through large service doors and a power hood with walk-in access to the engine compartment
- Track components do not require routine maintenance and easy to replace track pads help lower service costs
- Standard ground-level controls and an optional hydraulically-operated rotor turning device with pendant simplify bit removal and replacement
- Machine washdown systems connect to the onboard water tank for convenient clean-up
- The accessory drive system allows use of select machine functions without running the engine
- Electrical system wiring is color-coded and numbered for easy identification and wrapped in a protective, abrasion-resistant nylon braid for longer life
- Monitor fluid conditions with regular sampling to help extend change intervals up to 500 hours engine oil, 6000 hours hydraulic oil and 12000 hours coolant
- Built-in diagnostics monitor machine systems, alert the operator of performance issues and provide troubleshooting information
- VisionLink takes the guesswork out of managing your entire fleet–regardless of size or equipment manufacturer*–by providing maintenance needs, machine hours, location, fuel usage, idle time, diagnostic codes, and more through interactive dashboards on your mobile device or desktop, helping you make informed decisions that lower costs, simplify maintenance, and improve safety and security on your jobsite
- Remote Flash allows you to update onboard software without a technician being present, allowing you to initiate software updates when convenient to help increase your overall operating efficiency**
- Remote Troubleshoot allows your Cat dealer to perform diagnostic testing on your connected machine remotely**
- Cat Inspect is a mobile application that allows you to easily perform digital preventative maintenance checks, inspections, and daily walkarounds
- Convenient parts availability, dealer locations and service repair kits simplify ordering of high wear components

** Data field availability can vary by equipment manufacturer and is provided through an application programming interface (API).*

*** Must be within cell range coverage.*

Convenience Features

Cat cold planers offer a variety of features and options designed to make daily operation and maintenance tasks easier.

- Access daily/project and lifetime totals for distance, area and hours milled through the onboard machine displays
- Pause and resume machine functions with the push of a button during truck exchanges
- Hooks for water hose storage
- Lockable, water-tight storage compartments
- Angled water fill connection
- Easily accessible shovel holder
- Top and side view rotor depth indicators
- Optional magnetic paint can holders

Standard and Optional Equipment

Features, standard and optional equipment may vary by region. Please check with your local Cat dealer for specific offerings and availability in your area.

	Standard	Optional
OPERATOR ENVIRONMENT		
12-Volt power receptacle	✓	
Ground control keypads	✓	
Single high-resolution LCD touchscreen display	✓	
Dual high-resolution LCD touchscreen displays		✓
Dual operator consoles with vertical adjustment	✓	
Dual operator consoles with vertical, sideways, and rotational adjustment		✓
Hydraulically folding canopy with LED lights	✓	
Hydraulically folding canopy with LED lights and side extensions		✓
Anti-fatigue floor mats		✓
Adjustable pedestal seats		✓
Adjustable suspension seats		✓
Lockable 109x45x33 cm (43x18x13 in) storage chest		✓
Windscreens (front and rear)		✓
CAT® TECHNOLOGY		
Remote Flash	✓	
Remote Troubleshoot	✓	
Cat Grade and Slope	✓	
VisionLink™ telematics	✓	
VisionLink Productivity		✓
Inboard ski		✓
Single sonic grade control sensor		✓
Sonic averaging system for grade control		✓
High-resolution LCD touchscreen display (for ground level grade controls)		✓

	Standard	Optional
CONVEYOR		
Grease tensioner (primary conveyor)	✓	
Hydraulically folding conveyor	✓	
Conveyor speed boost feature	✓	
Dust extraction system		✓
Additional spray bars (dust control)		✓
Conveyor release valve		✓
ROTOR SYSTEM		
Automatic plunge-cut	✓	
Automatic grade and slope transition feature	✓	
Obstacle jump	✓	
Three cutting speeds	✓	
Pneumatic bit removal tool	✓	
Toolholder extractor	✓	
Powered rotor turning device	✓	
Pendant control for rotor turning device		✓
System K Rotor – Coarse (25 mm)		✓
System K Rotor – Coarse (18 mm)		✓
System K Rotor – Standard (15 mm)		✓
System K Rotor – Fine (10 mm) (PM622 only)		✓
System K Rotor – Fine (8 mm)		✓
System K Rotor – Micro (6 mm)		✓
System H Rotor – Micro (6 x 2 mm)		✓
Cat Diamond bits		✓
Bit bucket trays		✓
POWERTRAIN		
Engine Idle Speed Management	✓	
High capacity cooling system	✓	
Automatic Load Control	✓	

Continued

Standard and Optional Equipment

Features, standard and optional equipment may vary by region. Please check with your local Cat dealer for specific offerings and availability in your area.

	Standard	Optional
HYDRAULIC SYSTEM		
Two independent hydraulic propel circuits	✓	
Traction Control	✓	
Cat Bio HYDO™ Advanced biodegradable hydraulic oil		✓
High ambient hydraulic oil		✓
SERVICE AND MAINTENANCE		
Scheduled Oil Sampling (S•O•S℠) Ports	✓	
Power hood	✓	
Platform-level engine oil dipsticks	✓	
Rotor chamber water spray system	✓	
Air compressor	✓	
Accessory drive system	✓	
3400 L (898 gal) onboard water tank	✓	
Side water fill valve	✓	
High pressure washdown	✓	
Low pressure washdown		✓
Water tank transfer pump		✓
Fuel transfer pump		✓
Fast fill fuel tank		✓
SAFETY AND SECURITY		
Platform handrails	✓	
Signaling/warning horn	✓	
Wide-dispersion LED work lighting	✓	
Rear vision camera	✓	
Multi vision cameras (front conveyor, 2 magnetic mount)		✓
Enhanced LED lighting package (perimeter, rotor service and water level)		✓
Magnetic LED work light		✓
Warning beacon (fixed or magnetic mount)		✓
Truck signal lights		✓

Cat® PM620, PM622 Cold Planers

Technical Specifications

Powertrain		
Engine Model	Cat C18	
Cylinders	6	
Emission Standards	Brazil MAR-1, equivalent to U.S. EPA Tier 3 and EU Stage IIIA	
Gross Power @ 1,900 rpm – SAE J1995	470 kW	630 hp
Engine Power @ 1,900 rpm – ISO 14396	464 kW	622 hp
Build Number	02C	
Maximum Milling Speed	100 m/min	328 ft/min
Maximum Travel Speed	6 km/h	3.7 mph

- Advertised power is tested per the specified standard in effect at the time of manufacture.

Cutting System		
Milling Width		
PM620	2010 mm	79.1 in
PM622	2235 mm	88.0 in
Number of Bits (15 mm spacing)		
PM620	170	
PM622	185	
Maximum Cutting Depth	330 mm	13.0 in
Rotor Speeds	100 / 109 / 118 rpm	
Minimum Left Cutting Radius	2.00 m	6.56 ft
Minimum Right Cutting Radius		
PM620	2.00 m	6.56 ft
PM622	1.80 m	5.91 ft

Weights		
Operating Weight		
PM620	30 815 kg	67,936 lb
PM622	31 291 kg	68,985 lb
Transport Weight		
PM620	29 586 kg	65,226 lb
PM622	30 062 kg	66,275 lb

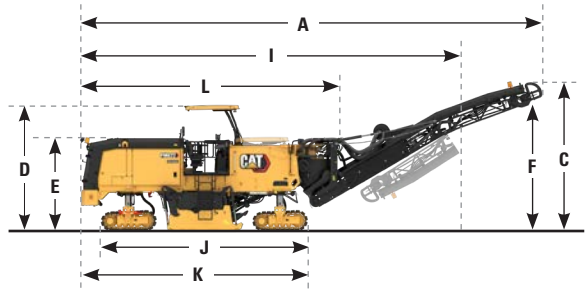
Weights shown are approximate and include:

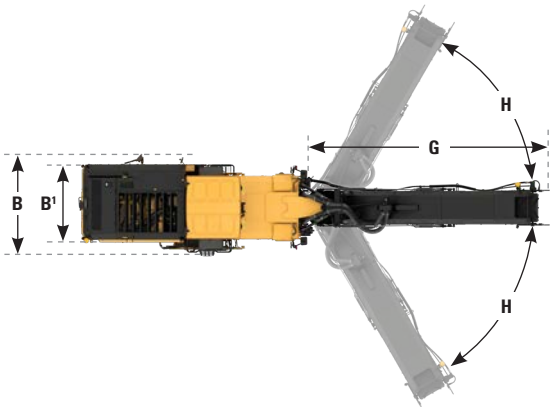
- *Operating weight includes base machine with 75 kg (165 lb) operator, all standard equipment, dust abatement system, 15 mm rotor, pedestal seats, one ground display, 50% water, 50% fuel and full operating fluids.*
- *Transport weight includes base machine, all standard equipment, dust abatement system, 15 mm rotor, pedestal seats, one ground display, empty water, full fuel and other operating fluids.*

Service Refill Capacities		
Fuel Tank	1108 L	292.7 gal
Cooling System	85 L	22.5 gal
Engine Oil	65 L	17.2 gal
Hydraulic Oil	113 L	29.9 gal
Water Tank	3400 L	898.2 gal

	Operating Dimensions		
A	Overall Length (conveyor raised)	14.52 m	47.64 ft
B	Maximum Machine Width	3.11 m	10.20 ft
B[1]	Minimum Machine Width		
	PM620	2.48 m	8.14 ft
	PM622	2.71 m	8.89 ft
C	Maximum Height (conveyor raised)	5.23 m	17.16 ft
D	Height to Canopy	4.05 m	13.29 ft
E	Height (canopy lowered)	3.00 m	9.84 ft
F	Maximum Truck Clearance	4.86 m	15.94 ft
G	Conveyor Length	8.38 m	27.49 ft
H	Conveyor Swing	±60° from center	

	Shipping Dimensions		
I	Transport Length	12.43 m	40.78 ft
B[1]	Transport Width		
	PM620	2.48 m	8.14 ft
	PM622	2.71 m	8.89 ft
E	Transport Height (canopy lowered)	3.00 m	9.84 ft
J	Length (track to track)	6.69 m	21.95 ft
K	Length of Machine (rear to front track)	7.32 m	24.02 ft
L	Length of Base Machine	8.33 m	27.33 ft





Environmental Declaration

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit www.caterpillar.com/en/company/sustainability.html.

ENGINE

- The Cat C18 meets Brazil MAR-1, equivalent to U.S. EPA Tier 3 and EU Stage IIIA emission standards.
- Cat engines are compatible with diesel fuel blended with the following lower-carbon intensity fuels* up to:
  - ✓ 20% biodiesel FAME (fatty acid methyl ester)
  - ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels

Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

**Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.*

PAINT

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
  - Barium < 0.01%
  - Cadmium < 0.01%
  - Chromium < 0.01%
  - Lead < 0.01%

SOUND PERFORMANCE

With cooling fan speed at 70% of maximum value:

Operator Sound Pressure Level (ISO 11201:2010) – 95 dB(A)
Exterior Sound Power Level (ISO 3744:2010) – 112 dB(A)

- The operator sound pressure level was measured according to ISO 11201:2010. The measurement was conducted at 70 percent of the maximum engine cooling fan speed.
- The machine sound power level was measured according to ISO 3744:2010. The measurement was conducted at 70 percent of the maximum engine cooling fan speed.
- Hearing protection may be needed when operating with an open operator station for extended periods or in a noisy environment.

OILS AND FLUIDS

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat Bio HYDO™ Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

FEATURES AND TECHNOLOGY

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
  - Advanced hydraulic systems balance power and efficiency
  - Adjustable rotor speeds allow for milling at lower engine speeds
  - Engine Idle Speed Management allows the machine to idle at the lowest possible RPM
  - The variable-speed cooling fan operates at the lowest speed for optimal cooling
  - System K rotor efficiently removes material and reduces drag
  - Cat Diamond bits are designed to stay sharp, last significantly longer than a carbide bit and maintains cutting efficiency
  - The Standby/Resume feature pauses machine functions and lowers engine speed during truck exchanges
  - Extended maintenance intervals reduce fluid and filter consumption
  - Remote Flash and Remote Troubleshoot

RECYCLABILITY

- The materials included in machines are categorized as below with approximate weight percentage. Because of variations of product configurations, the following values in the table may vary.

Material Type	Weight Percentage
Steel	80.62%
Iron	6.45%
Nonferrous Metal	3.39%
Mixed Metal	0.31%
Mixed-Metal and Nonmetal	2.67%
Plastic	2.85%
Rubber	1.08%
Mixed Nonmetallic	0.03%
Fluid	1.25%
Other	0.86%
Uncategorized	0.49%
Total	100%

- A machine with higher recyclability rate will ensure more efficient usage of valuable natural resources and enhance End-of-Life value of the product. According to ISO 16714 (Earthmoving machinery – Recyclability and recoverability – Terminology and calculation method), recyclability rate is defined as percentage by mass (mass fraction in percent) of the new machine potentially able to be recycled, reused or both.

  All parts in the bill of material are first evaluated by component type based on a list of components defined by the ISO 16714 and Japan CEMA (Construction Equipment Manufacturers Association) standards. Remaining parts are further evaluated for recyclability based on material type.

  Because of variations of product configurations, the following value in the table may vary.

  Recyclability – 95%

QEHQ3231-01 (12-2025)
Build Number: 02C
(Afr-ME, Eurasia, Aus-NZ, Hong Kong,
Pacific Islands, SE Asia,
S Am [excl. Chile, Colombia])

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at **www.cat.com**

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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment.
See your Cat dealer for available options.

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